

# Ehsan Seyedjafari

## List of Publications by Year in descending order

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98  
papers

3,107  
citations

147801

31  
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182427

51  
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99  
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99  
docs citations

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times ranked

4903  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesenchymal Stem Cell Therapy for COVID-19: Present or Future. <i>Stem Cell Reviews and Reports</i> , 2020, 16, 427-433.	3.8	261
2	Nanohydroxyapatite-Coated Electrospun Poly(lactide) Nanofibers Enhance Osteogenic Differentiation of Stem Cells and Induce Ectopic Bone Formation. <i>Biomacromolecules</i> , 2010, 11, 3118-3125.	5.4	162
3	PCL/chitosan/Zn-doped nHA electrospun nanocomposite scaffold promotes adipose derived stem cells adhesion and proliferation. <i>Carbohydrate Polymers</i> , 2015, 118, 133-142.	10.2	158
4	A comparison between osteogenic differentiation of human unrestricted somatic stem cells and mesenchymal stem cells from bone marrow and adipose tissue. <i>Biotechnology Letters</i> , 2011, 33, 1257-1264.	2.2	137
5	Electrospun nanofiber-based regeneration of cartilage enhanced by mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 467-478.	4.0	122
6	New Approach to Bone Tissue Engineering: Simultaneous Application of Hydroxyapatite and Bioactive Glass Coated on a Poly(l-lactic acid) Scaffold. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4518-4524.	8.0	106
7	Improved infiltration of stem cells on electrospun nanofibers. <i>Biochemical and Biophysical Research Communications</i> , 2009, 382, 129-133.	2.1	88
8	Accelerated Epidermal Regeneration and Improved Dermal Reconstruction Achieved by Polyethersulfone Nanofibers. <i>Tissue Engineering - Part A</i> , 2010, 16, 3527-3536.	3.1	72
9	Enhanced reconstruction of rat calvarial defects achieved by plasma-treated electrospun scaffolds and induced pluripotent stem cells. <i>Cell and Tissue Research</i> , 2013, 354, 849-860.	2.9	71
10	Fabrication of a three dimensional spongy scaffold using human Wharton's jelly derived extra cellular matrix for wound healing. <i>Materials Science and Engineering C</i> , 2017, 78, 627-638.	7.3	58
11	The synergistic effect of nano-hydroxyapatite and dexamethasone in the fibrous delivery system of gelatin and poly(l-lactide) on the osteogenesis of mesenchymal stem cells. <i>International Journal of Pharmaceutics</i> , 2016, 507, 1-11.	5.2	56
12	Comparison of osteogenic differentiation potential of human adult stem cells loaded on bioceramic-coated electrospun poly(L-lactide) nanofibres. <i>Cell Proliferation</i> , 2015, 48, 47-58.	5.3	55
13	Enhanced osteogenic differentiation of cord blood-derived unrestricted somatic stem cells on electrospun nanofibers. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 165-174.	3.6	54
14	Cellular infiltration on nanofibrous scaffolds using a modified electrospinning technique. <i>Biochemical and Biophysical Research Communications</i> , 2012, 423, 50-54.	2.1	54
15	Enhanced osteogenic differentiation of mesenchymal stem cells on metal-organic framework based on copper, zinc, and imidazole coated poly(l-lactic acid) nanofiber scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1841-1848.	4.0	50
16	Enhanced Infiltration and Biomineralization of Stem Cells on Collagen-Grafted Three-Dimensional Nanofibers. <i>Tissue Engineering - Part A</i> , 2011, 17, 1209-1218.	3.1	49
17	Enhanced osteogenic differentiation of stem cells via microfluidics synthesized nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1809-1819.	3.3	49
18	Enhanced osteoconductivity of polyethersulphone nanofibres loaded with bioactive glass nanoparticles in <i>in vitro</i> and <i>in vivo</i> models. <i>Cell Proliferation</i> , 2015, 48, 455-464.	5.3	47

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19	Nanotechnology for delivery of gemcitabine to treat pancreatic cancer. <i>Biomedicine and Pharmacotherapy</i> , 2017, 88, 635-643.	5.6	47
20	Function of Poly (lactic-co-glycolic acid) Nanofiber in Reduction of Adhesion Bands. <i>Journal of Surgical Research</i> , 2012, 172, e1-e9.	1.6	46
21	An improved surface for enhanced stem cell proliferation and osteogenic differentiation using electrospun composite PLLA/P123 scaffold. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1274-1281.	2.8	45
22	Preparation and evaluation of polyurethane/cellulose nanowhisker bimodal foam nanocomposites for osteogenic differentiation of hMSCs. <i>Carbohydrate Polymers</i> , 2017, 171, 281-291.	10.2	44
23	Nanotopographical cues of electrospun PLLA efficiently modulate non-coding RNA network to osteogenic differentiation of mesenchymal stem cells during BMP signaling pathway. <i>Materials Science and Engineering C</i> , 2018, 93, 686-703.	7.3	42
24	Enhanced Skin Regeneration by Herbal Extractâ€Coated Polyâ€Lâ€Lactic Acid Nanofibrous Scaffold. <i>Artificial Organs</i> , 2017, 41, E296-E307.	1.9	41
25	Insulin producing cells generation by overexpression of miR-375 in adipose-derived mesenchymal stem cells from diabetic patients. <i>Biologicals</i> , 2017, 46, 23-28.	1.4	40
26	Poly-l-lactic acid scaffold incorporated chitosan-coated mesoporous silica nanoparticles as pH-sensitive composite for enhanced osteogenic differentiation of human adipose tissue stem cells by dexamethasone delivery. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 4020-4029.	2.8	39
27	CSF loaded nanofiber/nanoparticle composite coated with collagen promotes wound healing <i>in vivo</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2830-2842.	4.0	38
28	Enhanced chondrogenesis of human nasal septum derived progenitors on nanofibrous scaffolds. <i>Materials Science and Engineering C</i> , 2014, 40, 445-454.	7.3	37
29	Early spontaneous immortalization and loss of plasticity of rabbit bone marrow mesenchymal stem cells. <i>Cell Proliferation</i> , 2011, 44, 67-74.	5.3	36
30	Coating of electrospun poly(lacticâ€coâ€glycolic acid) nanofibers with willemite bioceramic: improvement of bone reconstruction in rat model. <i>Cell Biology International</i> , 2014, 38, 1271-1279.	3.0	36
31	Bioceramic-collagen scaffolds loaded with human adipose-tissue derived stem cells for bone tissue engineering. <i>Molecular Biology Reports</i> , 2014, 41, 741-749.	2.3	34
32	Microfluidic fabrication of alendronate-loaded chitosan nanoparticles for enhanced osteogenic differentiation of stem cells. <i>Life Sciences</i> , 2020, 254, 117768.	4.3	34
33	Improvement of PDMS surface biocompatibility is limited by the duration of oxygen plasma treatment. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2806-2813.	4.0	31
34	Ion-Exchange Polymer Nanofibers for Enhanced Osteogenic Differentiation of Stem Cells and Ectopic Bone Formation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 72-82.	8.0	30
35	Baghdadite nanoparticleâ€coated poly (l-lactic acid) (PLLA) ceramics scaffold improved osteogenic differentiation of adipose tissueâ€derived mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1284-1293.	4.0	30
36	Cytocompatibility of a conductive nanofibrous carbon nanotube/poly (L-Lactic acid) composite scaffold intended for nerve tissue engineering. <i>EXCLI Journal</i> , 2015, 14, 851-60.	0.7	30

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37	Bioactive glass ceramic nanoparticles-coated poly(L-lactic acid) scaffold improved osteogenic differentiation of adipose stem cells in equine. <i>Tissue and Cell</i> , 2017, 49, 565-572.	2.2	29
38	Development and characterization of electrosprayed nanoparticles for encapsulation of curcumin. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 285-292.	4.0	28
39	Dexamethasone loaded multi-layer poly(L-lactic acid)/pluronic P123 composite electrospun nanofiber scaffolds for bone tissue engineering and drug delivery. <i>Pharmaceutical Development and Technology</i> , 2019, 24, 338-347.	2.4	28
40	3D-Printed PCL Scaffolds Coated with Nanobioceramics Enhance Osteogenic Differentiation of Stem Cells. <i>ACS Omega</i> , 2021, 6, 35284-35296.	3.5	27
41	Fabrication and characterization of alginate/chitosan hydrogel combined with honey and aloe vera for wound dressing applications. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51398.	2.6	26
42	Enhancement of stem cell differentiation to osteogenic lineage on hydroxyapatite-coated hybrid PLGA/gelatin nanofiber scaffolds. <i>Biologicals</i> , 2016, 44, 511-516.	1.4	23
43	Cytoskeletal remodeling induced by substrate rigidity regulates rheological behaviors in endothelial cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 71-80.	4.0	23
44	Pharmaceutical implants: classification, limitations and therapeutic applications. <i>Pharmaceutical Development and Technology</i> , 2020, 25, 116-132.	2.4	23
45	Co-delivery of gemcitabine prodrug along with anti NF- $\kappa$ B siRNA by tri-layer micelles can increase cytotoxicity, uptake and accumulation of the system in the cancers. <i>Materials Science and Engineering C</i> , 2020, 116, 111161.	7.3	23
46	Polycarbonate surface cell's adhesion examination after Nd:YAG laser irradiation. <i>Materials Science and Engineering C</i> , 2009, 29, 1491-1497.	7.3	22
47	Biomimetic scaffolds containing nanofibers coated with willemite nanoparticles for improvement of stem cell osteogenesis. <i>Materials Science and Engineering C</i> , 2016, 62, 398-406.	7.3	21
48	Isolation, characterization, and mesodermic differentiation of stem cells from adipose tissue of camel ( <i>Camelus dromedarius</i> ). <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2013, 49, 147-154.	1.5	20
49	Cytotoxicity Evaluation and Magnetic Characteristics of Mechano-thermally Synthesized CuNi Nanoparticles for Hyperthermia. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1220-1225.	2.5	20
50	7SK small nuclear RNA inhibits cancer cell proliferation through apoptosis induction. <i>Tumor Biology</i> , 2015, 36, 2809-2814.	1.8	20
51	Fat harvesting site is an important determinant of proliferation and pluripotency of adipose-derived stem cells. <i>Biologicals</i> , 2016, 44, 12-18.	1.4	20
52	Prevention of adhesion bands by ibuprofen-loaded PLGA nanofibers. <i>Biotechnology Progress</i> , 2016, 32, 990-997.	2.6	19
53	Modification of electrospun poly(L-lactic acid)/polyethylenimine nanofibrous scaffolds for biomedical application. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018, 67, 247-257.	3.4	19
54	Nanofibrous Scaffolds Containing Hydroxyapatite and Microfluidic-Prepared Polyamidoamin/BMP-2 Plasmid Dendriplexes for Bone Tissue Engineering Applications. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 2633-2646.	6.7	18

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55	Osteogenic differentiation of mesenchymal stem cells cultured on PLLA scaffold coated with Wharton's Jelly. EXCLI Journal, 2017, 16, 785-794.	0.7	18
56	Surface mineralized hybrid nanofibrous scaffolds based on poly(L-lactide) and alginate enhances osteogenic differentiation of stem cells. Journal of Biomedical Materials Research - Part A, 2019, 107, 586-596.	4.0	17
57	Zinc silicate mineral-coated scaffold improved in vitro osteogenic differentiation of equine adipose-derived mesenchymal stem cells. Research in Veterinary Science, 2019, 124, 444-451.	1.9	17
58	Surface expression of CXCR4 in unrestricted somatic stem cells and its regulation by growth factors. Cell Biology International, 2010, 34, 687-692.	3.0	16
59	Novel approach to reduce postsurgical adhesions to a minimum: Administration of losartan plus atorvastatin intraperitoneally. Journal of Surgical Research, 2013, 181, 91-98.	1.6	16
60	Extremely Low Frequency Electromagnetic Field in Mesenchymal Stem Cells Gene Regulation: Chondrogenic Markers Evaluation. Artificial Organs, 2016, 40, 929-937.	1.9	16
61	In Vivo Differentiation of Mesenchymal Stem Cells into Insulin Producing Cells on Electrospun Poly-L-Lactide Acid Scaffolds Coated with Matricaria chamomilla L. Oil. Cell Journal, 2016, 18, 310-21.	0.2	16
62	Fabrication of a co-culture micro-bioreactor device for efficient hepatic differentiation of human induced pluripotent stem cells (hiPSCs). Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 161-170.	2.8	14
63	Investigation of Osteoinductive Effects of Different Compositions of Bioactive Glass Nanoparticles for Bone Tissue Engineering. ASAIO Journal, 2017, 63, 512-517.	1.6	13
64	Incorporating PCL nanofibers with oyster shell to improve osteogenic differentiation of mesenchymal stem cells. Polymer Bulletin, 2020, 77, 701-715.	3.3	13
65	RNA-binding protein Rbm47 binds to Nanog in mouse embryonic stem cells. Molecular Biology Reports, 2013, 40, 4391-4396.	2.3	12
66	CYTOTOXICITY EVALUATION OF 63S BIOACTIVE GLASS AND BONE-DERIVED HYDROXYAPATITE PARTICLES USING HUMAN BONE-MARROW STEM CELLS. Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia, 2011, 155, 323-326.	0.6	12
67	Hardystonite-Coated Poly(L-lactide) Nanofibrous Scaffold and Efficient Osteogenic Differentiation of Adipose-Derived Mesenchymal Stem Cells. Artificial Organs, 2018, 42, E335-E348.	1.9	11
68	Osteogenic differentiation of Wharton's jelly-derived mesenchymal stem cells cultured on WJ-scaffold through conventional signalling mechanism. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, S1032-S1042.	2.8	11
69	Microfluidic fabrication of berberine-loaded nanoparticles for cancer treatment applications. Journal of Drug Delivery Science and Technology, 2021, 61, 102134.	3.0	11
70	Electrospun poly(L-lactide) nanofibers coated with mineral trioxide aggregate enhance odontogenic differentiation of dental pulp stem cells. Polymers for Advanced Technologies, 2021, 32, 402-410.	3.2	11
71	Time dependency of morphological remodeling of endothelial cells in response to substrate stiffness. Biolmpacts, 2017, 7, 41-47.	1.5	11
72	Electrospun composite PLLA/Oyster shell scaffold enhances proliferation and osteogenic differentiation of stem cells. Biologicals, 2018, 54, 33-38.	1.4	10

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73	miR-424 induces apoptosis in glioblastoma cells and targets AKT1 and RAF1 oncogenes from the ERBB signaling pathway. <i>European Journal of Pharmacology</i> , 2021, 906, 174273.	3.5	10
74	Osteoconduction of Unrestricted Somatic Stem Cells on an Electrospun Polylactic-Co-Glycolic Acid Scaffold Coated with Nanohydroxyapatite. <i>Cells Tissues Organs</i> , 2018, 205, 9-19.	2.3	9
75	Surfactant-assisted water-exposed versus surfactant-aqueous solution-exposed electrospinning of novel super hydrophilic polycaprolactone based fibers: Analysis of drug release behavior. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 597-609.	4.0	9
76	Micropatterning of ECM Proteins on Glass Substrates to Regulate Cell Attachment and Proliferation. <i>Avicenna Journal of Medical Biotechnology</i> , 2013, 5, 234-40.	0.3	9
77	Carboxymethyl carrageenan immobilized on 3D-printed polycaprolactone scaffold for the adsorption of calcium phosphate/strontium phosphate adapted to bone regeneration. <i>International Journal of Biological Macromolecules</i> , 2022, 206, 861-874.	7.5	9
78	Improved immobilization of gelatin on a modified polyurethane urea. <i>Journal of Bioactive and Compatible Polymers</i> , 2015, 30, 57-73.	2.1	8
79	In vivo bone regeneration using a bioactive nanocomposite scaffold and human mesenchymal stem cells. <i>Cell and Tissue Banking</i> , 2021, 22, 467-477.	1.1	8
80	MicroRNA-218 competes with differentiation media in the induction of osteogenic differentiation of mesenchymal stem cell by regulating $\beta$ -catenin inhibitors. <i>Molecular Biology Reports</i> , 2020, 47, 8451-8463.	2.3	7
81	Effects of substrate mechanics on angiogenic capacity and nitric oxide release in human endothelial cells. <i>Annals of the New York Academy of Sciences</i> , 2020, 1470, 31-43.	3.8	7
82	A Three-Dimensional Scaffold-Based System for Modeling the Bone Marrow Tissue. <i>Stem Cells and Development</i> , 2016, 25, 492-498.	2.1	6
83	Electrospun Poly-L-Lactic Acid Coated with Silicate Bioceramic Nanoparticles Enhance Osteogenic Differentiation of Adipose Tissue Derived Mesenchymal Stem Cells. <i>Journal of Biomaterials and Tissue Engineering</i> , 2017, 7, 91-100.	0.1	6
84	Sustained Release of Risedronate from PLGA Microparticles Embedded in Alginate Hydrogel for Treatment of Bony Lesions. <i>Iranian Biomedical Journal</i> , 2022, 26, 124-31.	0.7	5
85	Kinetics of infected insect cell osmolysis and enhanced protein release using a modified disruption method. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1729-1735.	3.4	4
86	Enhanced proliferation and osteogenic differentiation of mesenchymal stem cells by diopside coated Poly-L-lactic Acid-Based nanofibrous scaffolds. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2022, 71, 707-716.	3.4	4
87	Comparative Evaluation of the Effects of Antimicrobial Photodynamic Therapy With an LED and a Laser on the Proliferation of Human Gingival Fibroblasts on the Root Surface: An In Vitro Study. <i>Journal of Lasers in Medical Sciences</i> , 2021, 12, e47-e47.	1.2	4
88	Coating of 3D-printed poly ( $\epsilon$ -caprolactone) scaffolds with silk protein sericin enhances the osteogenic differentiation of human mesenchymal stem cells. <i>Polymers for Advanced Technologies</i> , 2022, 33, 1211-1221.	3.2	4
89	Primordial germ cell differentiation of nuclear transfer embryonic stem cells using surface modified electroconductive scaffolds. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2017, 53, 371-380.	1.5	3
90	Regeneration of Bone Defects in a Rabbit Femoral Osteonecrosis Model Using 3D-Printed Poly ( $\epsilon$ -Caprolactone)/Nanoparticulate Willemite Composite Scaffolds. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10332.	4.1	3

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91	Surfactant-assisted water-exposed versus surfactant-aqueous solution-exposed electrospinning of novel super hydrophilic Polycaprolactone-based fibers: Cell culture studies. Journal of Biomedical Materials Research - Part A, 2019, 107, 1204-1212.	4.0	2
92	Optimized dose of synthetic analogues of Monophosphoryl lipid A as an effective alternative for formulating recombinant human papillomavirus vaccine. Biologicals, 2020, 68, 60-64.	1.4	2
93	Improved efficacy of bio-mineralization of human mesenchymal stem cells on modified PLLA nanofibers coated with bioactive materials via enhanced expression of integrin $\alpha 1$ . Polymers for Advanced Technologies, 2020, 31, 2325.	3.2	2
94	EFFECTS OF SUBSTRATE DEFORMABILITY ON CELL BEHAVIORS: ELASTIC MODULUS VERSUS THICKNESS. Journal of Mechanics in Medicine and Biology, 2017, 17, 1750088.	0.7	1
95	H <sub>2</sub> O <sub>2</sub> -induced mild stress in relation with in vitro ovine oocyte developmental competence: implications for blastocyst apoptosis and related genes expression. Cellular and Molecular Biology, 2017, 63, 43.	0.9	1
96	Effect of Eight Weeks of Water Exercises on Deep Part of the Pool on the Static Balance of the Elderly Man. Salmand: Iranian Journal of Ageing, 2017, 12, 384-393.	0.5	0
97	Physicochemical Characterization of Altebrel <sup>®</sup> , a Proposed Etanercept Biosimilar. Iranian Journal of Biotechnology, 2019, 17, e2470.	0.3	0
98	Effects of Nanofiber Scaffolds Coated with Nanoparticulate and Microparticulate Freeze Dried Bone Allograft on the Morphology, Adhesion, and Proliferation of Human Mesenchymal Stem Cells. Iranian Biomedical Journal, 2022, 26, 193-201.	0.7	0